

## **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORTEVED

(PCT Article 36 and Rule 70)

0 2 SEP 2004

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	14.04.2003			
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II □ Priority	ent of opinion with regard to nov	elty, inventive s	step and industrial application,	
III  Non-establishme	ent of opinion will regard to	•	r - 1114- r	
IV  Lack of unity of i	nvention		inventive step or industrial applicability,	
IV Lack of unity of	ment under Rule 66.2(a)(ii) with	regard to nove	olty, inventive step or industrial applicability;	
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VII ☐ Certain defects	in the international application	cation		
VIII Certain observa	ations on the international applic	-		
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## INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

PCT/EP 03/03925 International application No.

	Basis	of	the	report
1.	Dasis	٠.	••••	

- With regard to the elements of the international application (Replacement sheets which have been furnished to
  the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed"
  and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

,	Descri 1, 3, 4 2	ption, Pages	as originally filed received on 12.05.2004 with letter of 12.05.2004
	Claim 1-4	s, Numbers	received on 12.05.2004 with letter of 12.05.2004
	Drawings, Sheets  1/3-3/3  2. With regard to the language, language in which the internat These elements were available the language of a translate the language of publication the language of a translate Rule 55.2 and/or 55.3).  3. With regard to any nucleotic international preliminary examples of the language of a translate rule 55.2 and/or 55.3).  4. With regard to any nucleotic international preliminary examples of the language of a translate rule of the language of a translate rule of the language of a translate rule of the language of a translate rule of the		e resulted in the cancellation of:
		the description, the claims, the drawings,	pages: Nos.: sheets:

## INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

PCT/EP 03/03925 International application No.

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

- (Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)
- Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1-4

1. Statement

Yes: Claims Novelty (N) No: Claims Yes: Claims

Inventive step (IS) Claims No:

Yes: Claims 1-4 Industrial applicability (IA) No: Claims

2. Citations and explanations

see separate sheet

### International application No. PCT/EP 03/03925 INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

#### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.1 Document NL-A-1006481, which represents the relevant prior art, discloses a barrier element having the features as recited in the preamble of claim 1, said barrier element being adaped for connection to a second barrier element as further recited in said preamble.

The subject-matter of claim 1 differs over the prior art in that on the first end the barrier element is provided with fixing means for accommodating a fixing element for fixing the barrier element relative to the carriageway (i) and wherein the fixing means comprise a fixing plate provided with feed-through holes (ii).

The subject-matter of claim 1 is therefore novel, Article 33(2) PCT.

1.2 The problem underlying the present invention is to provide a barrier element that can easily be fixed relative to a road surface.

Although fixing means for accomodating a fixing element for fixing the barrier element relative to the carriageway, said fixing means being located at a first end of the barrier element are known from US-A-4681302 (cf. col.5/l.38-43; fig.1), the combination of technical features (i and ii) has not been suggested by the prior art and therefore the solution as proposed to the barrier element problem in claims 1-4 is considered as involving an inventive step, Article 33(3) PCT.

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One or more of these objects is achieved with a barrier element that according to the invention is characterized in that on the first end the barrier element is provided with fixing means for accommodating a fixing element for fixing the barrier element relative to the carriageway.

The first end of the guide element, which is provided with the parts for the tenon and mortise connecting system, after positioning of the barrier element is also easily and directly accessible for the fitting of fixing elements after the barrier element has been placed in position. That is also the case if several barrier elements have been combined to form an assembly, for example by using connecting plates and mounting bolts. In that case the first end will be easily and directly accessible even after placing of the assembly. The fitting of the fixing means will consequently add little to the positioning time. Another advantage achieved is that no fitting hatches are necessary in order to reach the interior of the barrier element. A further advantage achieved is that, after the barrier elements have been positioned and connected, the fixing means are shielded by the guide element and do not form any projecting parts that could cause injuries to persons or damage to road vehicles when accidents occur.

Rivets, clamps or screws, which are driven into the road surface, can be used as the fixing elements.

A preferred embodiment of the barrier element according to the invention is characterized in that the fixing means are fitted in the interior of the barrier element. This has the advantage that there is great freedom in the type of fixing means and the way in which said fixing means are fixed on the barrier element, preferably with the guide element.

A preferred embodiment of a barrier element according to the invention is characterized in that the fixing means comprise a base plate that is provided with feed-through holes. In this embodiment the base plate, which has already been fitted as part of the tenon and mortise connecting system, is also used as a fixing means. As a result, few or no additional parts need be placed in the barrier element. Apart from the abovementioned elements, hook-shaped or strip-shaped elements that interact with the base plate can also be used as the fixing elements. Moreover, it is conceivable to fit an fixing plate as the fixing means if the base plate is not suitable for this purpose.

A further embodiment of the barrier element according to the invention is characterized in that the fixing means comprise a feed-through bush accommodated

#### CLAIMS

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- Barrier element for bounding a carriageway, comprising a guide element extending along a longitudinal axis, which guide element transversely to the longitudinal axis has on the underside a foot part, which on the first end of the guide element is provided with a base plate, which base plate is provided with parts of a tenon and mortise connecting system as the first connecting means for connecting the barrier element to a second barrier element, which is provided with parts of a tenon and mortise system as the second connecting means, which interact with the first connecting means, characterized in that on the first end the barrier element is provided with fixing means for accommodating a fixing 10 element for fixing the barrier element relative to the carriageway and wherein the fixing means comprise a fixing plate provided with feed-through holes.
- Barrier element according to claim 1, characterized in that the fixing plate is the 15 2. base plate.
  - Barrier element according to one of the preceding claims, characterized in that the fixing means comprise a feed-through bush between the fixing plate and the foot 3. part.
    - Barrier element according to one of the preceding claims, characterized in that the 4. fixing means are fitted near the guide element,